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PCR and "volume exclusion"

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Optimization of single-strand conformation polymorphism analysis in the presence of polyethylene glycol

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A Markoff, A Savoy, V Vladimirov... - Clinical ... 1997 - Am Assoc Clin Chem

... Both viscosity and **volume exclusion** appear to take part in the mechanisms by which water-soluble LCPs affect the migration of proteins in ... To test the protocol performance, we investigated **PCR** products varying in GC% content and length, ranging from 157 to 528 bp (Table 1 ...

[Cited by 51](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

Coamplification of target nucleic acids using **volume exclusion** agent in reaction composition, test kit and test device useful therefor

JW Backus - US Patent 5,705,366, 1998 - Google Patents

... men for detection. Such amplification techniques include 3J it is known that the hybridization rate of nucleic acids is polymerase chain reaction (**PCR**), ligase chain reaction increased considerably in the presence of **volume exclusion** (LCR) and others which are less developed. ...

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Direct observation of the enhancement of noncooperative protein self-assembly by macromolecular crowding: indefinite linear self-association of bacterial cell division ...

[\[HTML from pnas.org\]](#)

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G Rivas, JA Fernández... - Proceedings of the ... 2001 - National Acad Sciences

... It has been predicted that in "crowded" solutions—solutions containing a total volume fraction of inert proteins or other macromolecules comparable to that found in physiological fluid media—**volume exclusion** will significantly enhance the tendency of dilute as well as ...

[Cited by 79](#) - [Related articles](#) - [BL Direct](#) - [All 8 versions](#)

Comparison of in-situ hybridization, direct and indirect in-situ **PCR** as well as tyramide signal amplification for the detection of HPV

KH Wiedom, H Köhl, J Galle, J Caselitz... - Histochemistry and cell ... 1999 - Springer

... by a signal amplification step using TSA and on the other hand the simplification in laboratory proto- cols when compared to IS-**PCR**. ... but failed), can be utilized to improve the localization sharpness proba- bly due to a higher viscosity or to a **volume exclusion** of polymers (van ...

[Cited by 50](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

Capturing chromosome conformation

[\[PDF from duke.edu\]](#)

J Dekker, K Rippe, M Dekker... - Science, 2002 - sciencemag.org

... Control template is generated in which all possible ligation products are present in equal abundance (7). The cross-linking frequency (X) of two specific loci is determined by quantitative **PCR** reactions using ... We did not need to include terms for **volume exclusion** in this analysis. ...

[Cited by 561](#) - [Related articles](#) - [BL Direct](#) - [All 18 versions](#)

Hybridization properties of immobilized nucleic acids

[\[PDF from nih.gov\]](#)

TR Gingeras, DY Kwon... - Nucleic acids research, 1987 - Oxford Univ Press

... oligonucleotides: 1) displacement of adsorbed oligonucleotide probes from the support surface; and 2) by means of **volume exclusion**, the target ... DNA using support-bound oligonucleotides can be seen in the use of the Polymerase Chain Reaction protocol (**PCR**) described by ...

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Neutrophil collagenase (MMP-8) cleaves at the aggrecanase site E373-A374 in the interglobular domain of cartilage aggrecan.

[\[PDF from nih.gov\]](#)

AJ Fosang, K East, PJ Neame, G Murphy... - Biochemical ... 1994 - nobel.nim.nih.gov

... Figure 3 **Volume exclusion** effect of polyethylene glycol 4000 G1-G2 (0.5 mg/ml) was digested overnight at 37 °C with HgCl₂-activated MMP-8 (10 U/tg/ml) either alone (lane 1) or in the presence of PEG 4000 at a final concentration of 2%, 5%, 10%, 15% or 20% (lanes 2-6 ...

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Detection of messenger RNA and low-abundance heteronuclear RNA with single-stranded DNA probes produced by amplified primer extension labeling.

[\[PDF from sagepub.com\]](#)

PJ Brooks, MG Kaplitt, SP Kieopoulos... - ... of Histochemistry & ... 1993 - jhc.sagepub.com

... pmol of each ³H-labeled dNTP (Amersham; Arlington Heights, IL) (40-120 Ci/mmol) is dried and re-suspended in 1 x **PCR** buffer, for ... presumably by a **volume exclusion** effect (8), it also greatly decreases nonspecific probe binding to tissue sections (unpublished observations). ...

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Transmembrane domain-mediated colocalization of HLA-DM and HLA-DR is required for optimal HLA-DM catalytic activity

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DA Weber, CY Dao, J Jun, JL Wigd... - The Journal of ... 2001 - Am Assoc Immunol

... express DR1 molecules with transmembrane-cytoplasmic domains of either DM or CD80 were generated by overlapping **PCR** (24) and ... **Volume exclusion** by irrelevant integral membrane proteins has also been proposed to contribute toward enhanced association of membrane ...

[Cited by 24](#) - [Related articles](#) - [BL Direct](#) - [All 2 versions](#)

Nucleotide sequences useful as type-specific probes, **PCR** primers and LCR probes for the amplification and detection of human papilloma virus, and related kits and ...

JL Joseph, SR Bouma, RL Marshall... - EP Patent ... 1998 - freepatentsonline.com

... WO/1989/005357A, THE USE OF **VOLUME EXCLUSION** AGENTS FOR THE ENHANCEMENT OF IN SITU HYBRIDIZATION. ... WO/1991/010675A, PRIMERS AND